

NEW YORK, N.Y.

Manganese deposits of Slovakia. II. Manganese deposits of the Váh Valley. Dimitri Andrusov, Gustav Frank and Arnold Nambok (Slovak Univ., Bratislava, Czech.). *Geol. Survey* 4, 1948 (11, 66) (French summary).
Small deposits of Mn oxides occur in irregular lenses and as impregnations in limestones. The deposits appear to be of sedimentary origin. Chem. analyses of 5 ores are given.
Michael Flischer

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Vol. 7, no. 1/2, 1956, GEOLOGICKY SBORNIK, BRATISLAVA, CZECHOSLOVAKIA.

SO: Monthly List of East European Accessions, (EAL), LC, Vol. 5, No. 10, Oct. 1956.

NEMCOK, A.

"Geologic research for the construction of the Meliata Dam."

p. 147 (Casopia Pro Mineralogii A Geologh, Vol. 2, no. 3, 1957, Czcholovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, No. 2,
February 1958

NEMCOK, Arnold

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Bratislava, Geologicky Sbornik, No 2, 1962, pp 275-304

"Engineering-Geological Conditions for Use of Water
Power of Hornad and Torysa Rivers"

NEMCOK, Arnold, doc. dr. CSc.

Geologic construction of slopes and its influence on the origin and distribution of landslides in the West Carpathians. Geol sbor 15 no.1:147-155 '64.

1. Chair of Foundation Engineering, Geology and Dams,
Faculty of Building, Slovak Higher School of Technology,
Bratislava, Gottwaldovo namesti 2.

KOPAB, P.

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Geological Institute D. Stur (Geologický ústav D. Stura),
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Bratislava, Geologický Štorník, No 1, 1962, pp. 111-112

"Survey Study of Oriented Sedimentary Structures of
East-Slovakian Flysch"

Co-authors:

HRIBICKI, E., prom. geol., Geological Institute D. Stur,
DURKOVIC, S., prom. geol., "
MARŠČALKO, R., engr, "

NEMCOK, Jan, promovany geolog; KOPAR, Tomas, promovany geolog

Contribution to the geology of Saillno tectonic window and adjacent part of the Magura Flysch. Geol. stor. 14 no.1: 209-215 '63.

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EPSTEIN, Berthold, Prof. MUDr.; BABJUK, Jaroslav, PhMr.; NEMCOVA, Alice, MUDr.

Sudden poisoning in children. Cesk. pediat. 13 no.1:1-6 5 Jan 58.

1. Detske oddeleni nemocnice na Bulovce, prednosta prof. Dr. B. Epstein.
Ustredni laborator nemocnice na Bulovce, prednosta Dr. K. Masek. B. M.,
Praha 8, Bulovka.

(POISONING, in inf. & child
(Cz))

PARIZEK, Z.; FOJTU, E.; NEMCOVA, B.

Contribution to more detailed care of children in elementary schools and on improved cooperation with physicians caring for adolescents and regional committees for social welfare. Cesk. pediat. 18 no.6:550-557 Je '63.

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(SCHOOL HEALTH) (SOCIAL WELFARE) (PHYSICIANS)

NEMCOVA, D.

Experiments in preserving eggs in limewater. p. 310. Vol. 6, no. 6.
1955. PRUMYSL POTRAVIN. Praha.

Source: East European Accessions List (EEAL), LC, Vol. 5, no. 3. March 1956.

PHARMACOLOGY AND TOXICOLOGY

CZECHOSLOVAKIA

JANATA, V.; ~~NEMCOVA, D.~~; Research Institute of Pharmacy and Biochemistry (Vyzkumny Ustav pro Farmacii a Biochemii), Prague.

"New Disinfectants. I. Palmitic Acid Derivatives Containing a Trimethylammonium Group."

Prague, Ceskoslovenska Farmacie, Vol 15, No 4, May 66, pp 193-197

Abstract [Authors' English summary modified]: Various methods of synthesis of alpha-trimethylammonium derivatives of palmitic acid are discussed. The following substances are reviewed: alpha-bromo-palmitic acid and its ethylester; N,N-dimethylaminopalmitic acid and its ethylester; alpha-carbethoxypentadecyltrimethylammonium bromide, and iodide. The properties of these substances are described, and suitable raw materials for their preparation discussed. 11 Western, 15 Czech references. (Manuscript received 8 July 65).

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NEMCOVA, DAGMAR

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Determination of phytol and phytadiene and preparation of pure standards. Edward Knobloch, Věra Jančík, Václav Janata, Eduard Kraus, Dagmar Nemcova, and Zdeněk Hradek (Věra Kurný, Gustav Fiedl, Biochem., Prague), Chem. Abstr. 51, 1870-81 (1957). Phytol was detd. as its acetate by infrared spectroscopy at 880 cm^{-1} (in CHCl_3) or 4360 cm^{-1} (in CCl_4); phytadiene at 890 cm^{-1} (in cyclohexane or CS_2). To purify phytol, filter a soln. of crude material in Et_2O (10 g. in 100 ml.) through a 1:1 mixt. of Al_2O_3 and MgO ; evap. the Et_2O , fractionate the residue in c mol. still; chromatograph the fraction b. $76-77^\circ$ at $8 \times 10^{-2}\text{ mm}$. on Al_2O_3 ; elute phytadiene with petr. ether and phytol with Et_2O ; n_D^{20} 1.4635. To prep. phytadiene heat phytol acetate at 10 mm . and $130-40^\circ$ until the (CO_2H) has sublimed, dissolve the residue in Et_2O , wash with NaHCO_3 , evap. and distill through a Vigreux column at 10 mm .; chromatograph the purest fraction, and elute with petr. ether. Weigh 0.3 g. phytol into a 20-ml. flask, add 1.5 g. of a solid prep. (from 12 g. Ac_2O and 88 g. pyridine), heat the flask 10 min. at 100° , cool, dil. with 10 ml. H_2O , flush into a 250-ml. flask, and titrate with 0.5N NaOH against phenolphthalein.

M. Hudlick

Dagmar Nemcova

NEMCOVA, E.

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no direct) Ozra Institute of Public Health, Prague 31
pp 127-131. [English summary]

12. "Actionism Phenomena in the Field of Health in Young and
f-EGYAR of the Institute for the Care of Mother and
Children (otav pro bedu o tachu a dite), Prague-Podoli
p 131.

13. "Voice Hygiene During the School Age," SUMMARY of
the Phoniatric Laboratory, First Medical University of
Prague for University of Geneva, 31 1961.
Prague, 1961. p 131.

14. "Dynamic Investigation of the Physical Development in
Dynamically Athletic Apprentices in Various Occupations,"
Prague and VALECOVA of the Institute of
Physical Education (Vzravnny ustav vyznamnykh inzhinierov)
Prague, Prague; pp 132-133. [English summary]

15. "Development of the Abilities to Physical Work," Practical
Handbook of the Faculty of Medical Hygiene, Vol. 1, Prague
pp 136-138. [English summary]

16. "Some Problems of Hygiene and Work of Physicians in
Boarding Schools," SEKCI of the Jan Jirsa and Proton
va Military School p 139.

17. "Working Efficiency in Apprentices, Peasants and Non-
Peasants Sports," VI. Meeting of the Research Institute
of Physical Culture (Vzravnny ustav vyznamnykh inzhinierov),
Prague, and H. JARCOVA of the Institute of Hygiene,
Prague; pp 135-137. [English summary]

18. "The Strength of Dermal Tissue in Youngsters in Relation
to their Age and Physical Development," VI. Meeting of
the Institute of Physical Culture (Vzravnny ustav vyznamnykh inzhinierov)
Prague, and H. JARCOVA of the Institute of Hygiene,
Prague; pp 142-143. [English summary]

19. "Effect of Physical Training on the Physical Development
and Functional Condition of Youngsters," VI. Meeting of
the Institute of Physical Culture (Vzravnny ustav vyznamnykh inzhinierov)
Prague and P. KOCHERILSKA, JIRKOVA, V. NEJEDLIKOVA, J.
Prague of S. NEJEDLIKOVA, p. 143-144. [English summary]

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of Physical Culture, Prague; pp 145-147. [English
summary]

MERHAUTOVA, J.; SUKOP, J.; JOACHINSTHALER, F.; tech. spol. BARTOSOVA, S.;
JURINOVA, I.; MOLDRIKOVA, V.; STASTNA, J.; ZBUZKOVA, E.; NEMCOVA, E.

The effect of athletic education on the physical development, functional
condition and sporting performance in the youth aged 10-12 years.
Cesk. hyg. 7 no.2/3:145-152 '62.

1. Vyzkumny ustav telovychovny, Praha.

(GROWTH in inf & child) (PHYSICAL FITNESS in inf & child)
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BARTONICEK, Robert; NEMCOVA, J.

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Chem prum 12 no.9:493-496 S '62.

1. Statni vyzkumny ustav ochrany materialu G V. Akimova,
Praha.

NEMCOVA, Jitka; BARTONICEK, Robert

Mixture of quinoline and isoquinoline bases as corrosion inhibitor. Chem prua 15 no.1:9-15 Ja '65.

I. G.A.Akimov State Research Institute of Material Protection,
Prague.

NEMCOVA, M.; DRAHOZAL, H.

Some cases of encephalitis of unspecific etiology successfully treated with ataractics and Tofranil. *Activ. nerv. sup.* 4 no.2:237 '62.

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Stability of railroad and highway embankments built on the banks
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1. Oční klinika MU v Brně, přednosta prof. MUDr. Jan Vanysek--Mikrobiologický ústav SFN b Brně, přednosta prof. MUDr. Vaclav Tomasek.

(MICROCOCCAL INFECTIONS

anterior eye segment, diag. & antibiotic ther. (Cz))

(ANTIBIOTICS, ther. use

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micrococcal infect. of anterior eye segment, diag. & antibiotic ther. (Cz))

NEMCSIK, Pal, tanar

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1. Borsodnadasdi altalanos iskola.

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KOHOUTEK, M.; ZIDEK, J.; CECH, E.; CERVENKA, J.; NEMEC;
NOVAKOVA, J.

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no.6:459-466 Ag '64.

I. I. gyn.-por. klin. Lek. fak. University Komenskeho v
Bratislave (prednosta prof. dr. S. Stefanik); Gyn.-por.
klin. Lek. fak. Palackeho University v Olomouci (prednosta
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klin. Lek. Fak. University J.E. Purkyne v Brne (prednosta
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(prednosta prof. dr. V. Mikolas); I. gyn.-por. klin. Fak. vseob.
lek. Karlovy University v Prahe (prednosta prof. dr. K. Klaus,
DrSc.); Gyn.-por. klin. Lek. fak. University P.J. Safarika v
Kosiciach (prednosta doc. dr. K. Poradovsky, CSc.).

NEMEC, A., inz.; MYSLIVEC, T., inz., C.Sc.; PETRICA, J., inz.

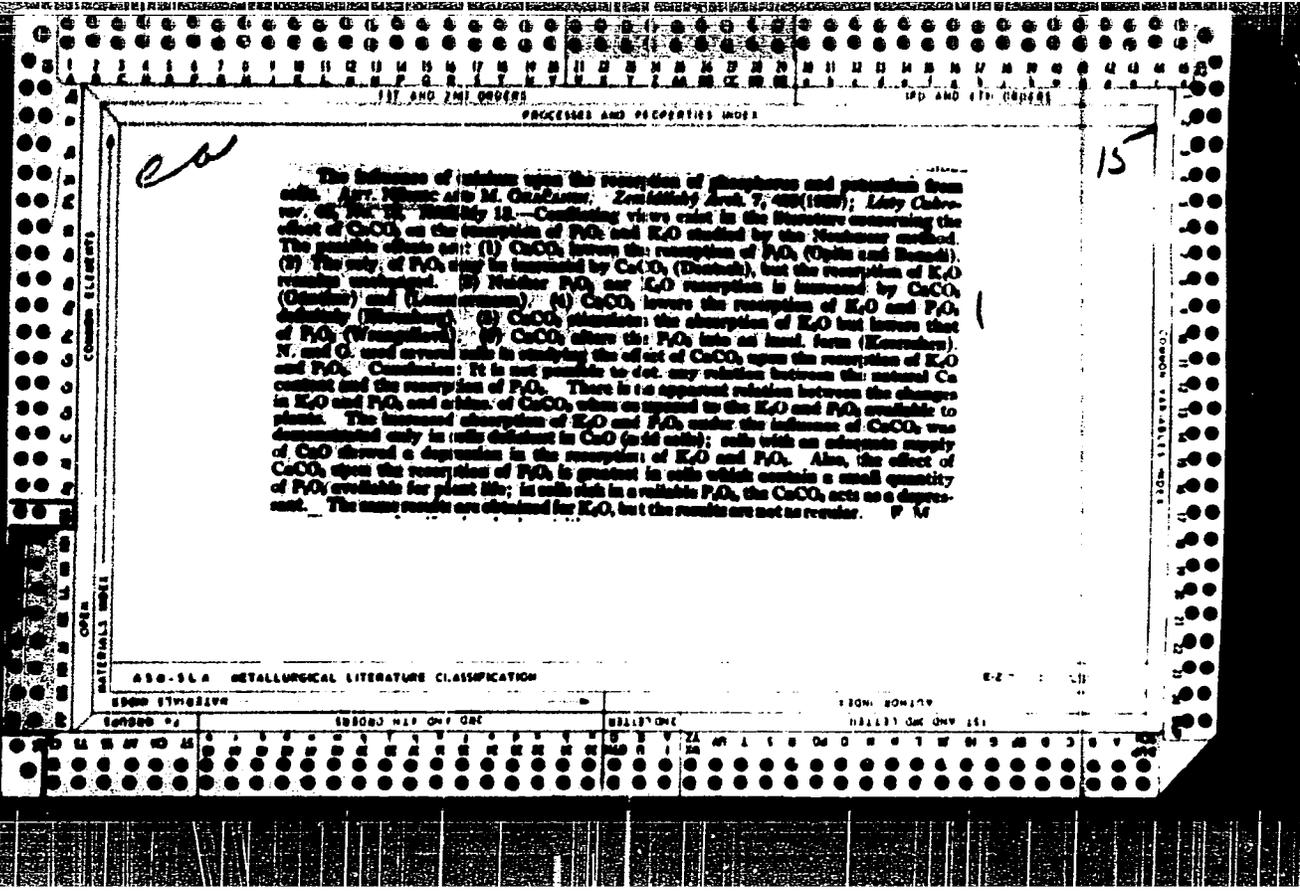
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2. Vykumny ustav metalurgicky, Vitkovicke zelezarny Klementa Gottwalda, Ostrava (for Myslivec).
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KOLMAN, J.M.; MALKOVA, D.; NEMEC, A.; SMETANA, A.; HAJKOVA, Z.; MIMAR, J.

The isolation of the Talya virus from the mosquito *Aedes vexans* in southern Moravia. J. hyg. epidem. (Praha) 8 no.3:380-386 '64

1. Institute of Parasitology, Czechoslovak Academy of Sciences, Prague.



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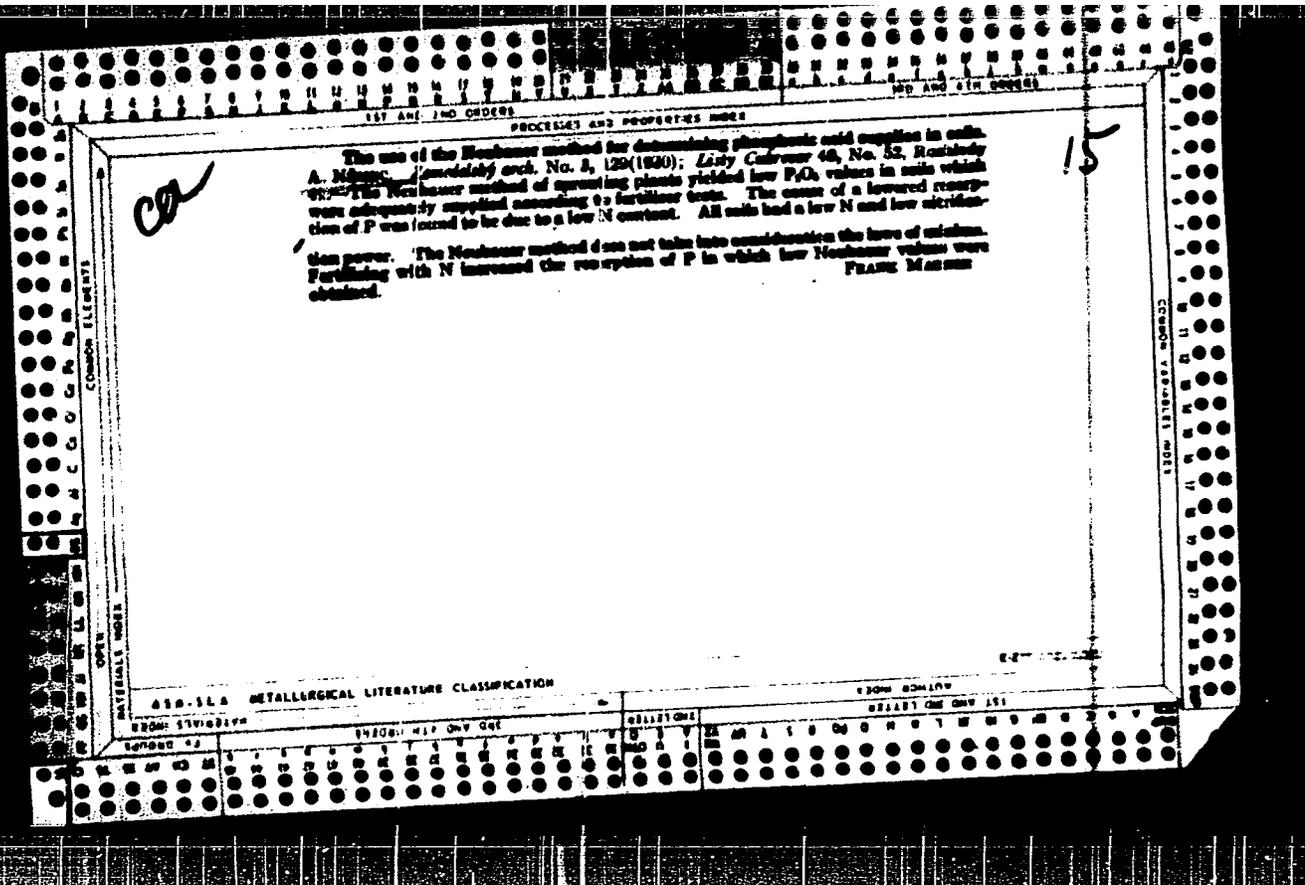
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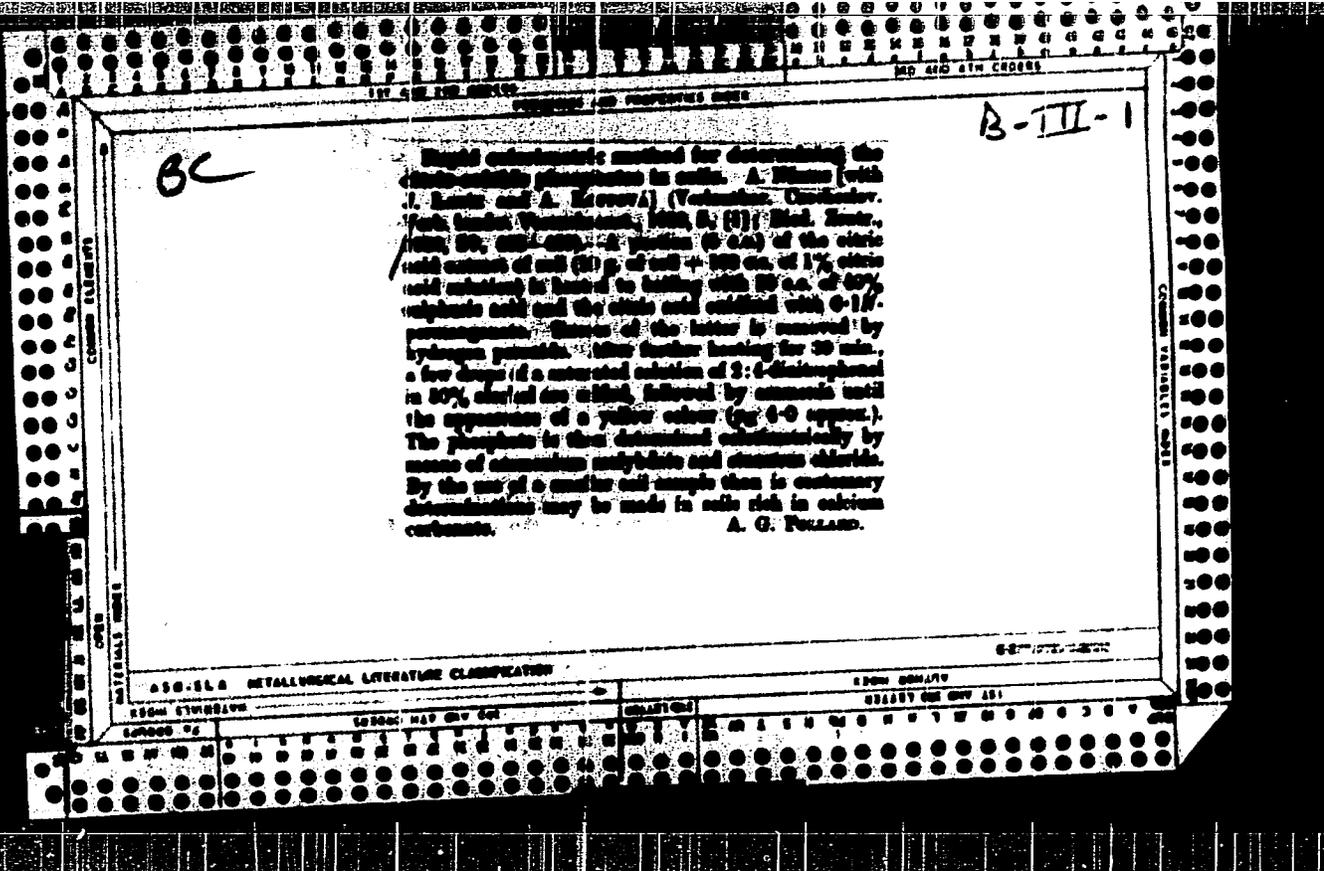
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2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600

2601





117 AND 118 COVERS

PROCESSES AND PROPERTIES INDEX

100 AND 101 COVERS

15

CA

The soluble nitrogen in soils and its relation to yields. A. Némec, and A. Koc-rovitz. *Vestník Československé Akademie Věd, 71(1950); Lidový Časopis, No. 20, Resiliently 25.*—The N content is at a min. in most soils and less attention is paid to it than to P and K. The best physical method is that of Mitscherlich; a chem. method yielding good results (König-Hauschilger) detcs. the sol. N by soln. in a 1% K₂CO₃ soln. The limits are set at 140-150 mg. per kg. of soil. Beets decreased the sol. N in soil 10%; rye decreased it 10%. Most all of the soils were deficient according to all fertilizer trials and the K.-H. method. Soils which were decreasing in sol. N reacted very well to fertilizers. In spite of varied physical reactions to fertilizers, the sol. N has remained const. for 2 yrs. The K.-H. method is reliable in soils demanding intensive N fertilization.

FRANK MARSH

COMMON VARIANTS INDEX

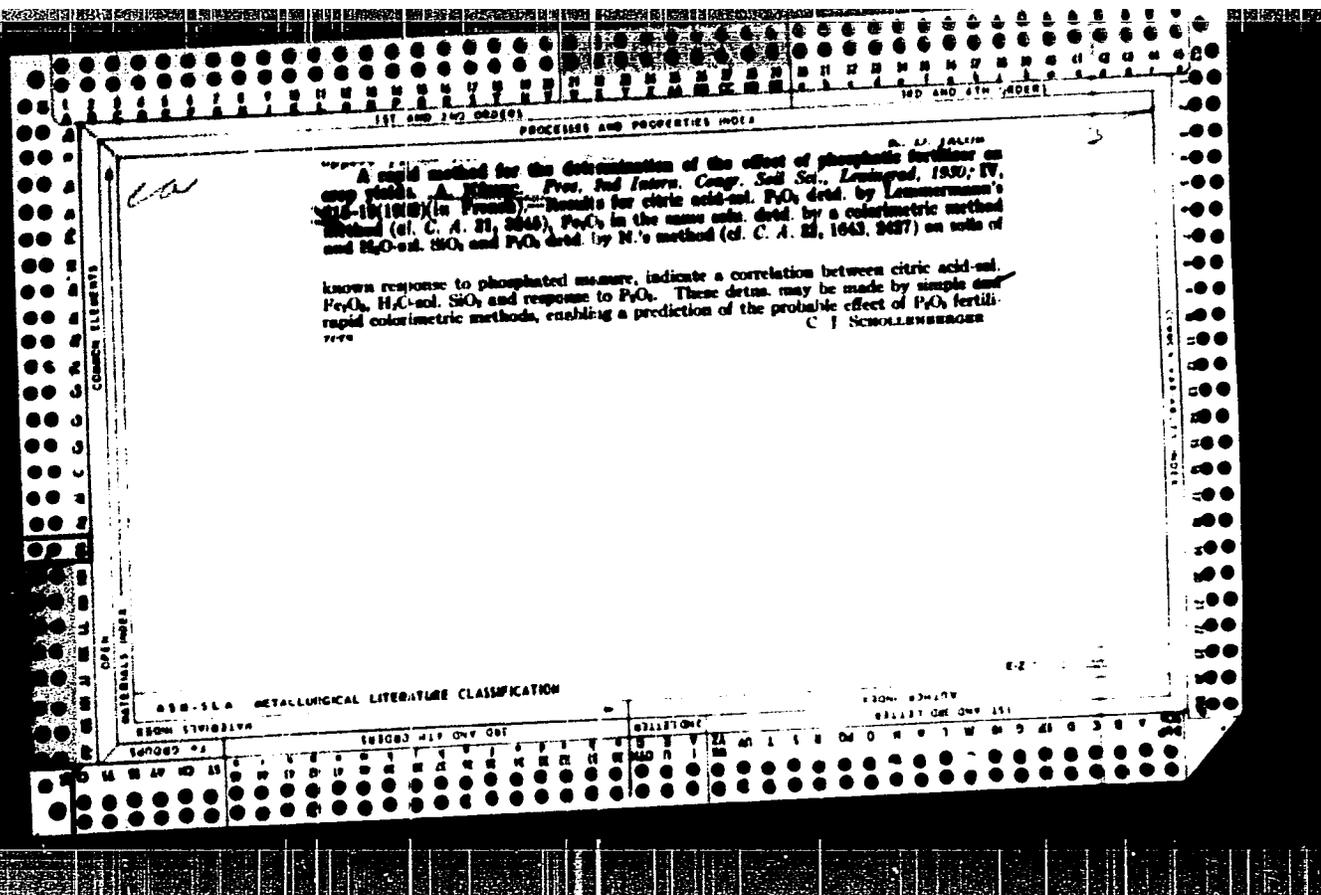
COMMON VARIANTS INDEX

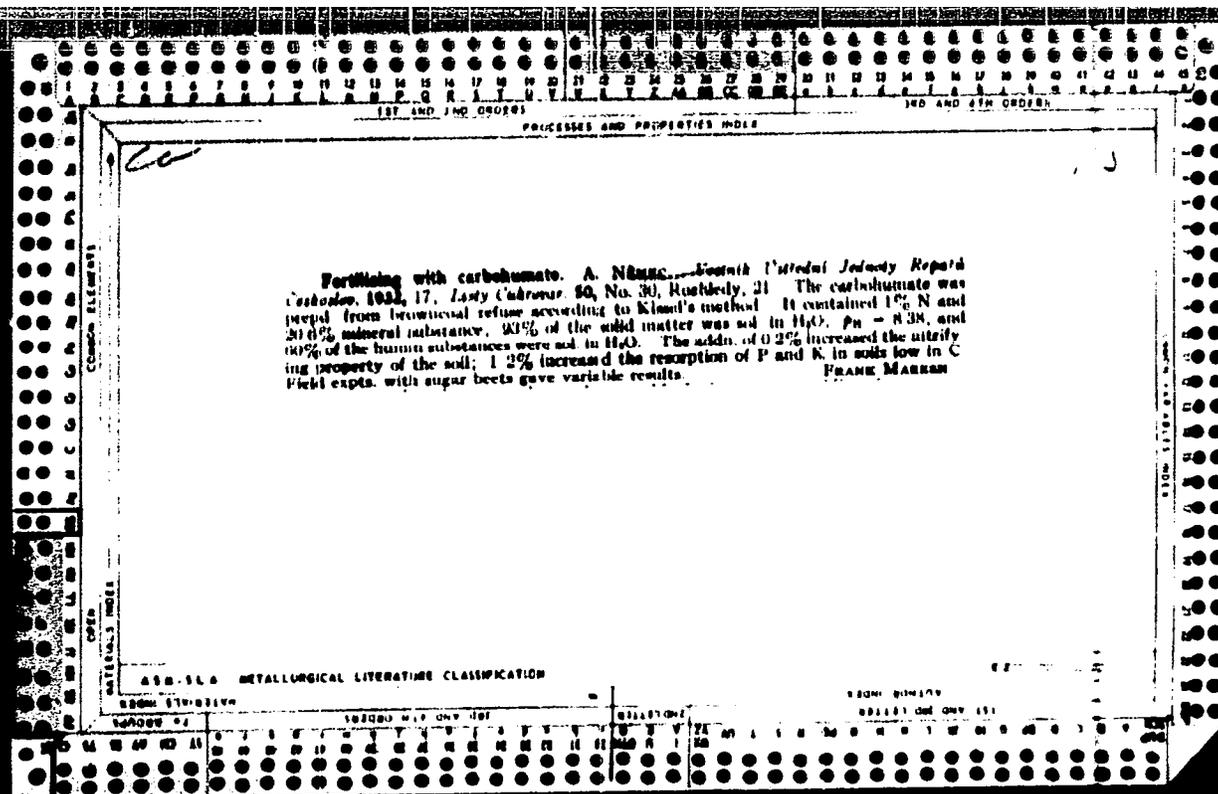
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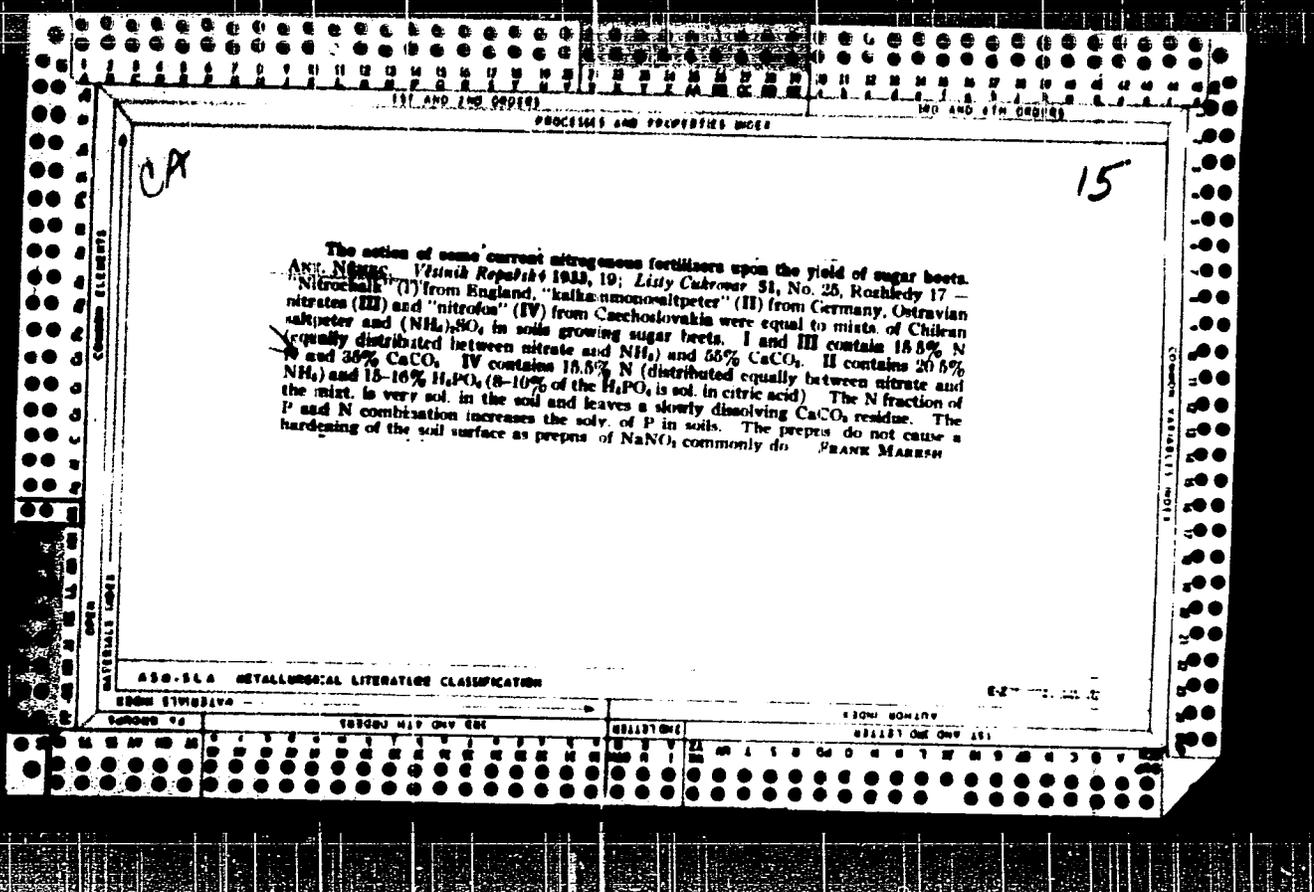
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CLASSIFICATION

GROUP







LIST AND INDEX

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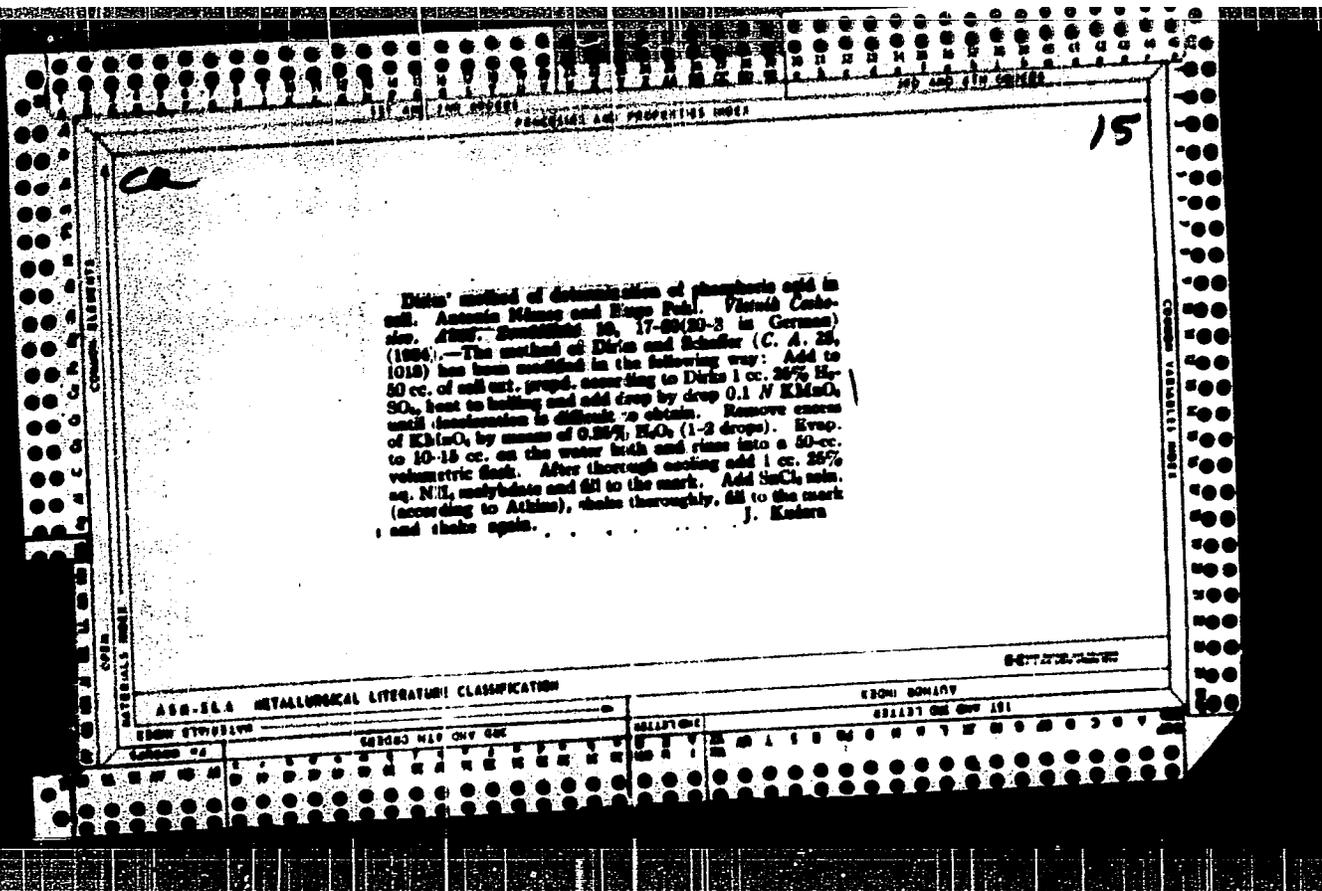
ca

Determination of nitrate in soils. A. J. Jenc and A. Koppová. Z. Pflanzenernähr. Düngew. Bodenk. NFA, 182-6(1933); cf. C. A. 29, 4906.—In the $\text{CaCl}_2(\text{OH})(\text{SO}_4\text{H})$ method, clarification of the soil ext. with $\text{Al}(\text{OH})_3$ leads to higher recorded values than when CaO is used. Presence of Cl^- in the ext. leads to loss of N during analysis. The xylene method (Blom and Treachow, C. A. 29, 4904) avoids this error by removal of Cl during the pretreatment with KMnO_4 . In soils poor in NO_3^- , oxidation of NO_3^- and NH_4^+ -acids may cause unduly high values by this method. B. C. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION



1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 3RD AND 4TH ORDERS

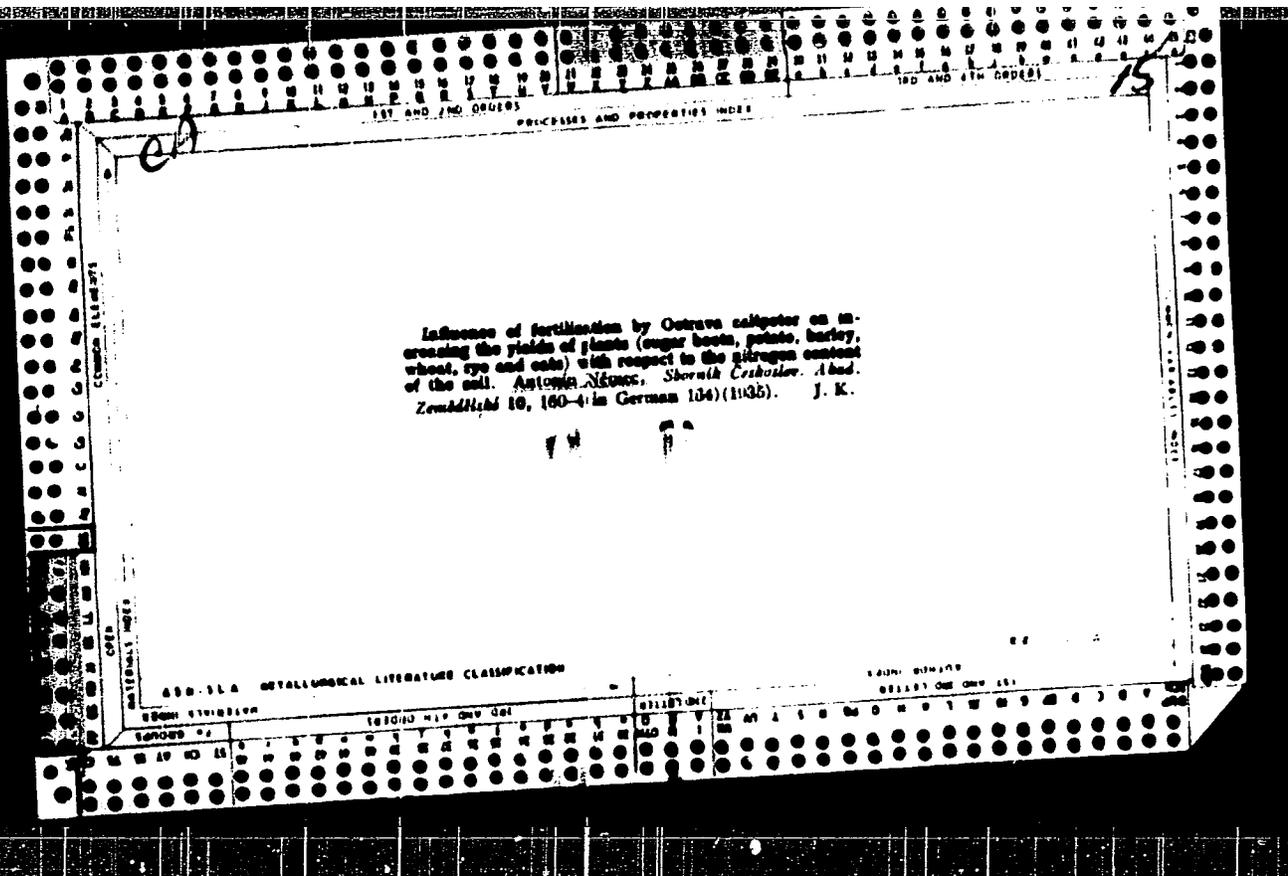
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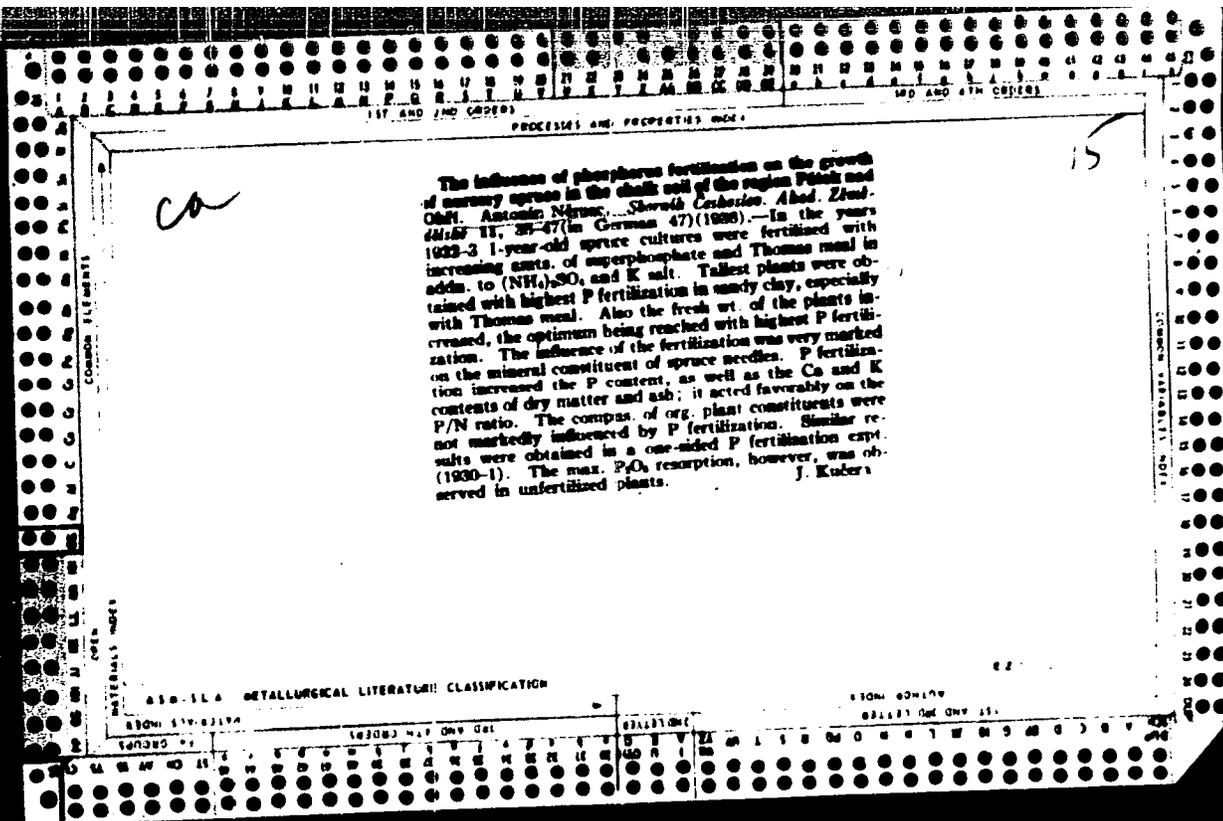
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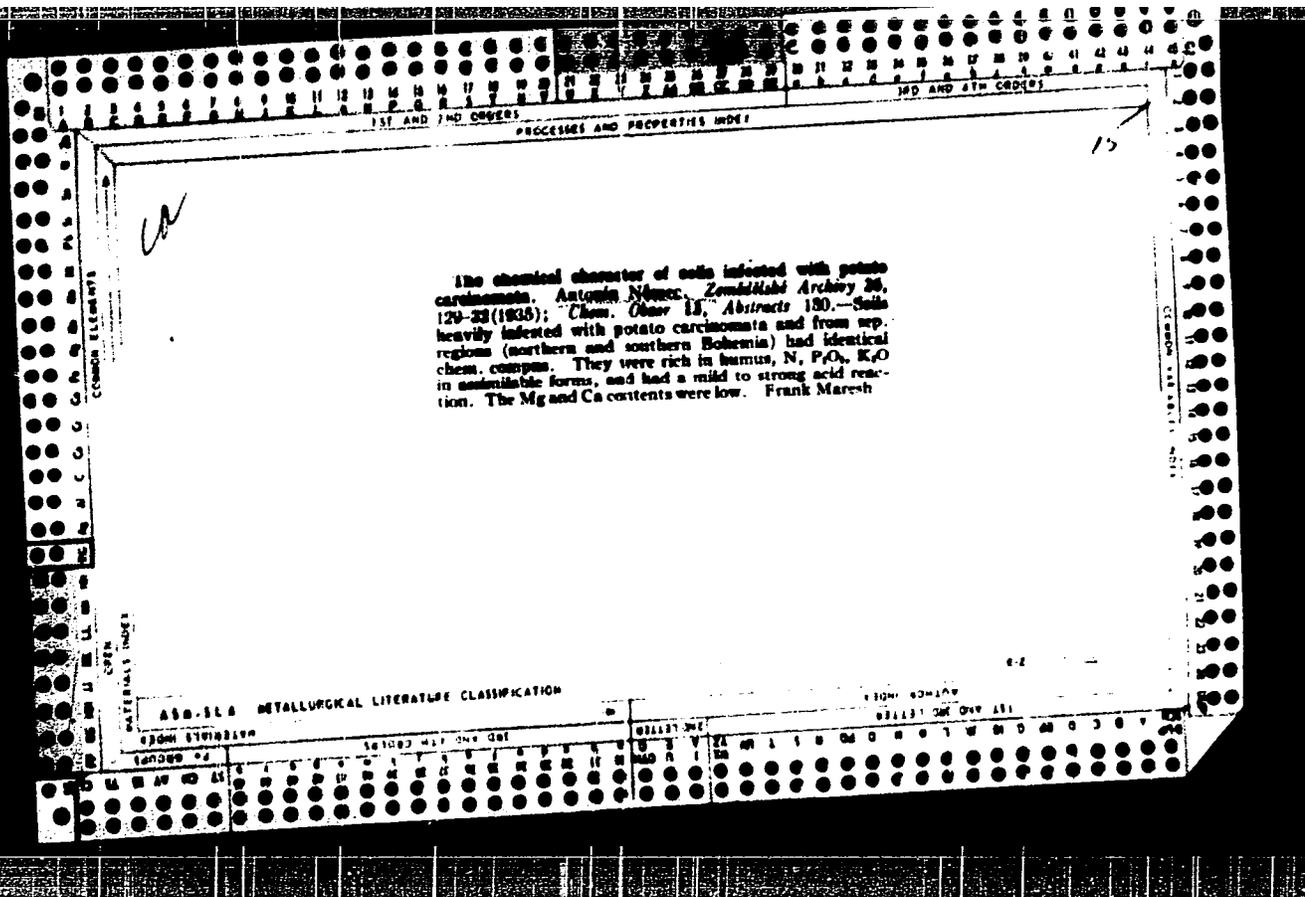
The chloride content of soils and the influence of chloride-free and chloride-containing potash fertilizers upon potatoes. *Annals N.Y. Acad. Sci.* *Placerville, Calif.* *Investigation*, *veg. Sect.*: 25A, 242-251(1954).—Cl⁻ in soils investigated, the one with highest Cl content, 69 and 82 p. m. in surface and subsoil, resp., although lowest in 1% citric acid- and H₂O-sol. K₂O, showed no significant increase in yield of potatoes from K₂O, but significant decreases in yield of starch as the effect of these fertilizers contg. Cl. On 2 soils with 3 p. m. Cl and intermediate sol. K₂O, K₂SO₄ produced greater increases in yield and starch content than Cl-contg. fertilizers. The latter increased yields but generally depressed percentage of starch in tubers on soils low in Cl. *C. J. Schollenberger*

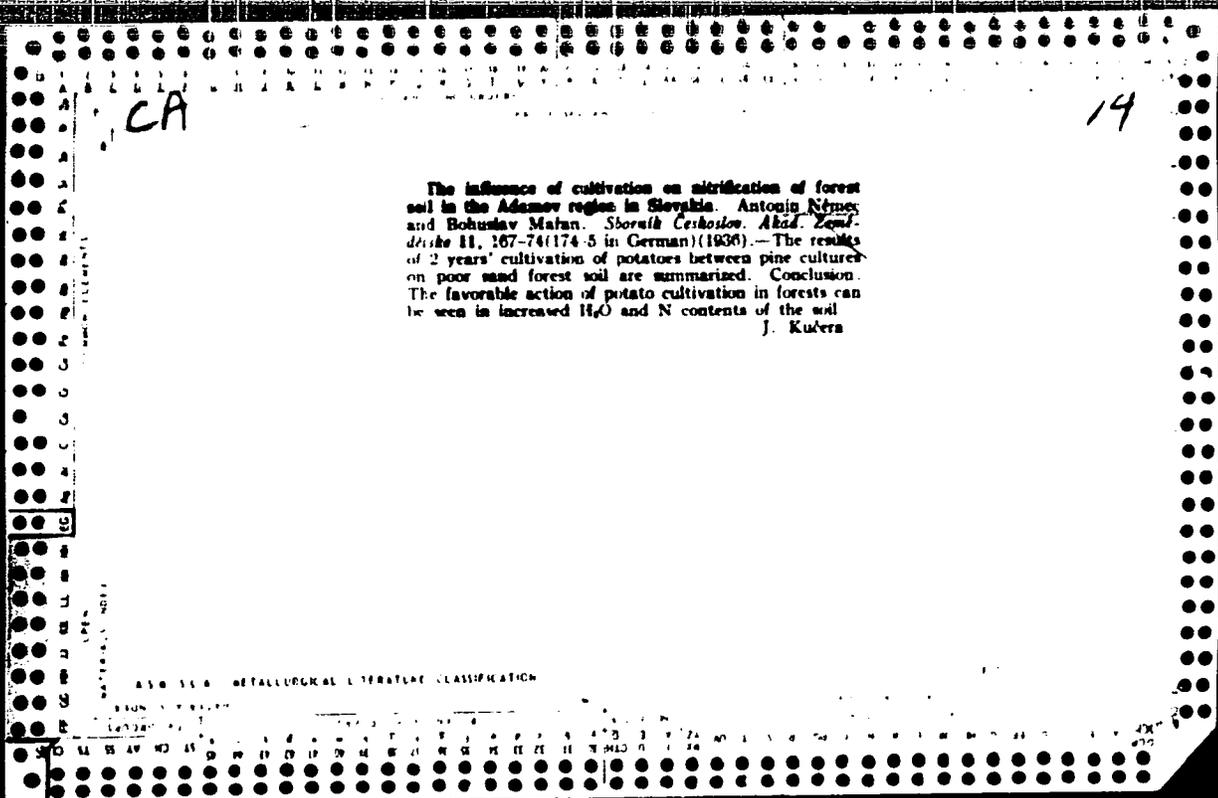
ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

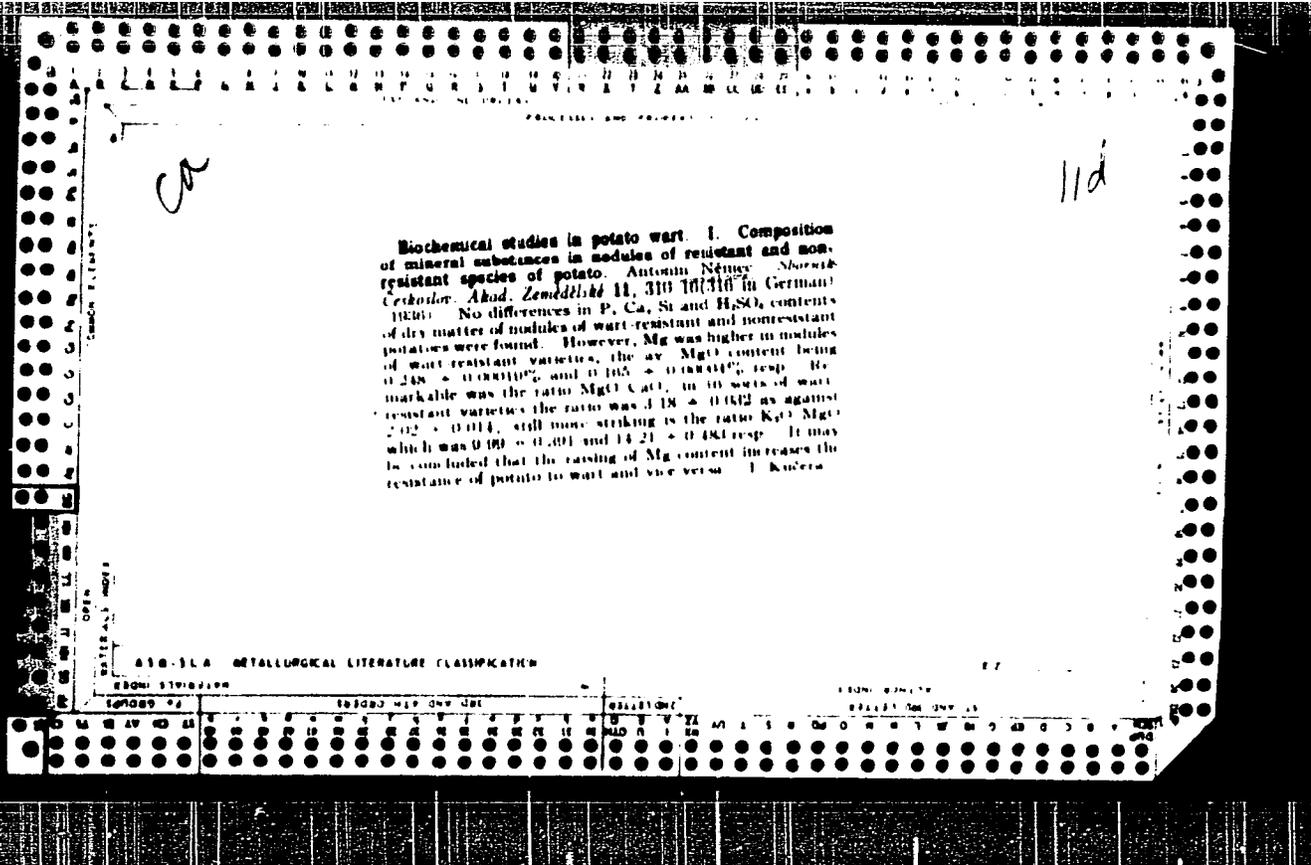
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1ST AND 2ND COPIES PROCESSED AND REPRODUCED

100 AND 17th COPIES

15

W

The determination of the fertilizing requirements of soils with the Neulomer method. *Antoni Nötter, Landwirtschaftliche Jahrbuch 27, 1908-10(1908); Chem. Abstr. 13, Abstracts 1M.*

In field expts. the P detns. made with the Neulomer method (cf. C. A. 24, 4574) were higher in limed soils and lower in soils without carbonates than simultaneous detns. with the Leuzersmann method. The S. method was very adequate for field expts. The K detns. in highly alk. soils were highest with the S. method; in soils without carbonates the K detns. were equal for the 2 methods. For the K₂O requirements of soils growing beets the S. method gave predictions corresponding to those obtained by the Neulomer method. Frank March

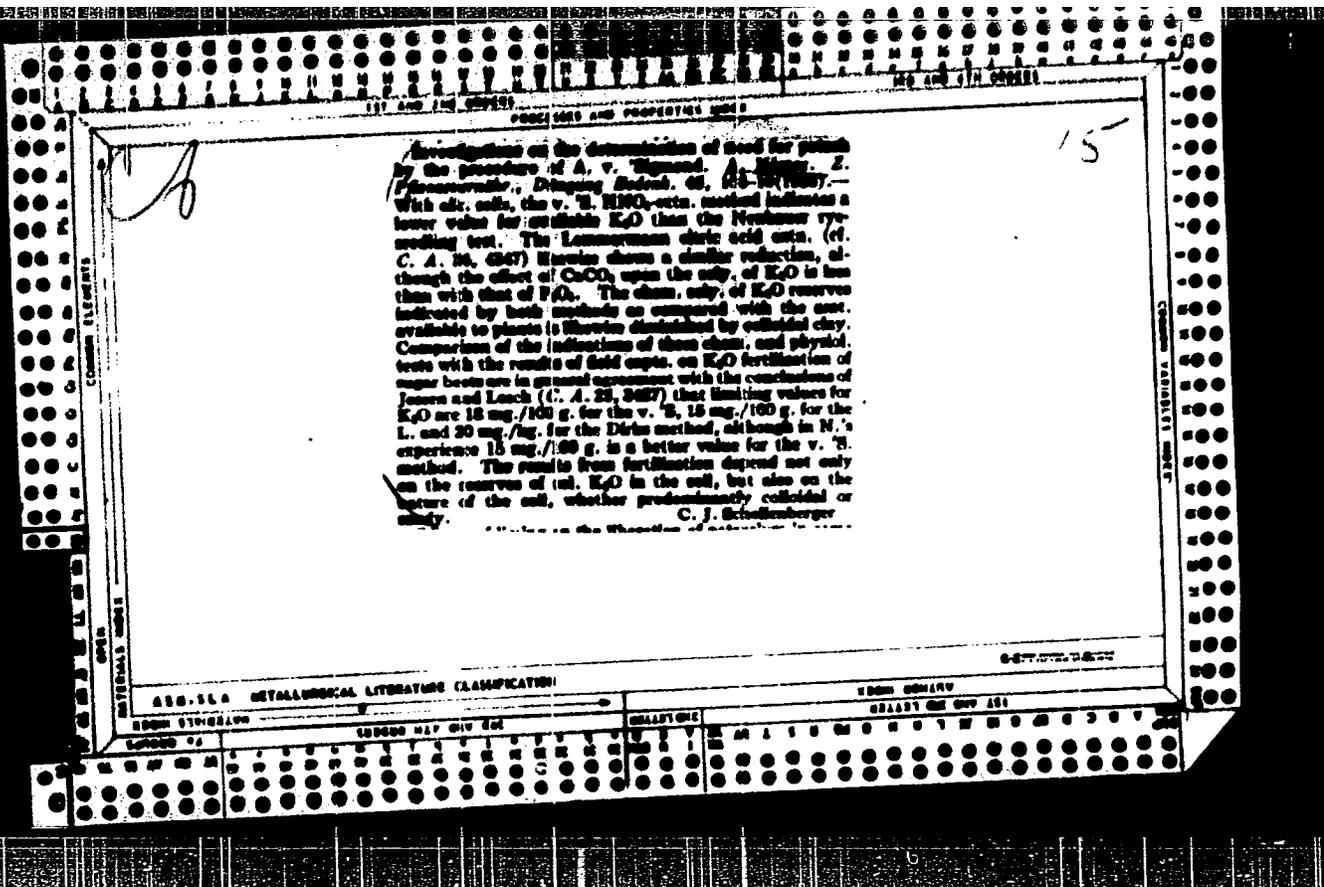
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ASS. S. A. METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL SYMBOLS

SYMBOLS

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PROCESSES AND PROPERTIES

15

KA

Nutritional disturbances in pines Artoom Némec,
Shornik Českoslo. Akad. Zemědělk. 14: 236-241 (1936)
Chem. Zvest. 1940, II, 276; (*C. A. B.* 1962, 8800)
 35, 5629) Disturbance in the CaO or K₂O nutrition re-
 sulted in stoppage of the growth of pine seedlings was accom-
 panied by a large uptake of SiO₂ and Mn. Intensive lim-
 ing resulted in increased growth, increased uptake of CaO,
 MgO and P₂O₅, and decreased SiO₂ and Mn uptake. Com-
 plete mineral fertilization showed the greatest effect.
 H. F. Wirth

METALLURGICAL LITERATURE CLASSIFICATION

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CA

Effect of exclusive fertilization with potassium salt and
 lime on the nutrition of pines in forest nurseries. I
 The effect on the potassium and phosphoric acid uptake
 Antonín Němec, *Československá Akad. Zemedelské 14,*
270 87 (1936), Chem. Zvest. 100, II, 25 (1 preceding
 abstr. The K₂O uptake of needles depends on the K₂O
 supply in the soil. Fertilization with 6% K₂O also affects
 on soils with a great supply of CaO, calcium is better
 on soils poor in CaO. On soils poor in P₂O₅, fertilization
 with K₂O only has little effect on the K₂O uptake of needles.
 High CaO content adversely affects the mobilization ...
 P₂O₅ by K₂O H. E. Wirth

ASB 51.4 METALLURGICAL LITERATURE CLASSIFICATION

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15

OA

The influence of fertilizing on the growth and nutrition of pedunculate oaks in the forest-tree nursery of the large estates at Chlumetz. Antonin Nemeec. *Sbornik Ceskoslo. Akad. Zemedelsk. V. 10, 108-116(1941); Chem. Zvest. 1941, 11, 200K.*—Expts. in 4 forest tree nurseries of the Forestry Office, Chlumetz with one year oaks showed that the growth of the fertilized oaks is promoted, that the best effect of fertilizing is obtained on strongly acid soils, that P-K fertilizing produces an increase in the wt. of air-dry substances, that combined liming and fertilizing on acid soils favors the development of the stems, that lime-free P-K fertilizing, on the other hand, promoted root development and finally that the mineral nutrition of the oaks was influenced differently by the different nutrients.

Colin W. Whittaker

ASB 51.6 METALLURGICAL LITERATURE CLASSIFICATION

15

GA

The chemical composition of soil from lake bottoms in Třeboňsko compared to the natural increment of fish Antonín Němec and Jaromír Fastrava *Šnorák Časopis Akad. Zemědělské 17, 84 7(1942)*. Soil specimens collected to a depth of 20 cm from 12 fish ponds as well as water specimens from the soil specimen locality were analyzed for total and soil N, exchangeable acidity, pH, K₂O, CaO, MgO, P₂O₅, SO₂, Fe₂O₃, Al₂O₃ and MnO₂ (acid by 1% citric acid). From the results of analysis it is evident that in soils from the fish pond bottoms content more than 1500 mg. CaO per kg. of soil, the increment of fish depends upon water-sol. K present in the soil except when the bottom is covered by a heavy vegetation which absorbs the sol. K and sometimes contains 3% K in its ash. In soils containing less than 1500 mg. CaO per kg. the increment of fish was three or four times that of the soil was supplied with an abundance of sol. K₂O (200 mg/l and P₂O₅). The fish failed to increase in the soils rich in Al₂O₃. Without heavy vegetation the waters over soils rich in CaO were also rich in K₂O. Without adequate CaO in the soil, the P₂O₅ becomes bound by insol. Al and Fe compounds and does not enter the cycle soil-water-plankton-fish. Addition of P₂O₅ to soils with inadequate CaO are ineffective until the soils contain at least 1500 mg. CaO per kg.

Frank Matosh

CA

15

The nutrition and fertilization of elm Anton Némec and Sergej Borner *Školská Zpráva* (1947) 18, 340-8; 1943-44; Pub. 1947. *Bot. Časopis* 21, 1222 (1947). On the basis of a previous soil analysis, the amounts of P and K in the superficial layer of the soil were brought up to optimum. The fertilizer treatment (850 g Ca phosphate contg. 20% P₂O₅ and 197 g potash salt contg. 40% K₂O, per 5 sq. m bed surface) caused an increase in the height of 3-yr. old elm seedlings of 15.9%.

The fertilizers had very pronounced effects on the N and mineral content of seedlings. The fertilized plants showed a significant increase of P content in the leaves and roots. The largest increase was noted in the content of K in all the organs of elm plants. M. F. R.

ALSO SEE METACATALOG LITERATURE CLASSIFICATION

CLASSIFICATION	ALSO SEE	METACATALOG	LITERATURE	CLASSIFICATION
Q	1	2	3	4
U	5	6	7	8
V	9	10	11	12
W	13	14	15	16
X	17	18	19	20
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AG	53	54	55	56
AH	57	58	59	60
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REFERENCES AND PROPERTIES INDEX

11 D

CA

Chemical composition of the seeds of conifers. Antonin Nèzace. *Lanschid Praxis* 28, 63-75(1944); *Biol. Abstr.* 38: 21, 208(1947); cf. *C.A.* 42, 730d.—Seeds of the following native and exotic conifers were analyzed for ash content and compn.: *Picea abies*, *Picea sibirica*, *P. austriaca*, *P. banksiana*, *P. strobus*, *Abies alba*, and *Larix europaea*. Ash content was: Jack pine 9.8-10.4; Scotch pine 7.9-8; spruce 4.2-4.9; white pine 4.5; Austrian pine 4.1; fir 2.8-3.2; and larch 2.8%. P_2O_5 content of the seed (by wt.) ranged from 0.8% for larch to 2.6% for jack pine; K_2O from 0.5% (spruce) to 1.3% (larch); MgO from 0.3% (fir) to 0.75% (Scotch and Austrian pines); and CaO from 0.04% (white and Austrian pines) to 0.24% (jack pine). SiO_2 content was 5-6.2% for jack pine, fairly high for Scotch pine, and very low for fir, Austrian pine, and larch (0.2% for larch). Fir and Austrian pine, which grow on soils rich in lime, had the lowest MnO content (0.03-0.05%); jack and white pines, which grow on acid soils, had the most (0.22 and 0.13% resp.). Production of a full seed crop in a 100-yr.-old pine stand requires 5 times as much P_2O_5 as is needed for the annual wood increment; for spruce, 3 times as much. Seed production of conifers depends on the supply of mineral nutrients, especially P_2O_5 and K_2O , in the soil. This is reflected in the periodicity of seed crops. Species requiring the most nutrients (pine and spruce) have longer intervals between crops than those that require less. M. F. R.

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A.S.T.M. METALLURGICAL LITERATURE CLASSIFICATION

SECTION NUMBER

QUALITY CONTROL

A. N. Polivka

(3-2)

Cascade forces cause tidal waves which, in accordance with static theory of geophysics, are calculated to be 31 1/2 in. Assuming dynamic equilibrium, the maximum tidal wave is 72 in high, which corresponds with reality.

The author discusses the effects of centrifugal forces, movement of the rotor, spiral forces, and conchules. The described chain of interrelated facts is based on dynamic equilibrium of the inhomogeneous surface of the earth. This equilibrium is caused by three cascade forces normal each to the other: (a) equilibrium of vertical forces indicates gravitational deviations, which are in connection with transgression and regression of the sea, i.e. movements of continents in the vertical sense by hundreds of feet; (b) equilibrium of meridional forces as origin of alpine orogeny and of movement of the poles; (c) equilibrium along the parallels, instrumental for the discovery of orogenies along the meridians (Cordillera, Ural), which primarily causes the spirals.

Final conclusions: (1) It is the task of geophysics and geodesy to serve as a basis for correct conclusions on geological development of the earth; (2) the knowledge of pertinent laws will contribute to a successful solution of geologic problems; (3) complete mechanical analysis (not only static but also dynamical) of equilibrium of the earth will fulfill all requirements expected from geophysics.

J. J. Polivka, USA

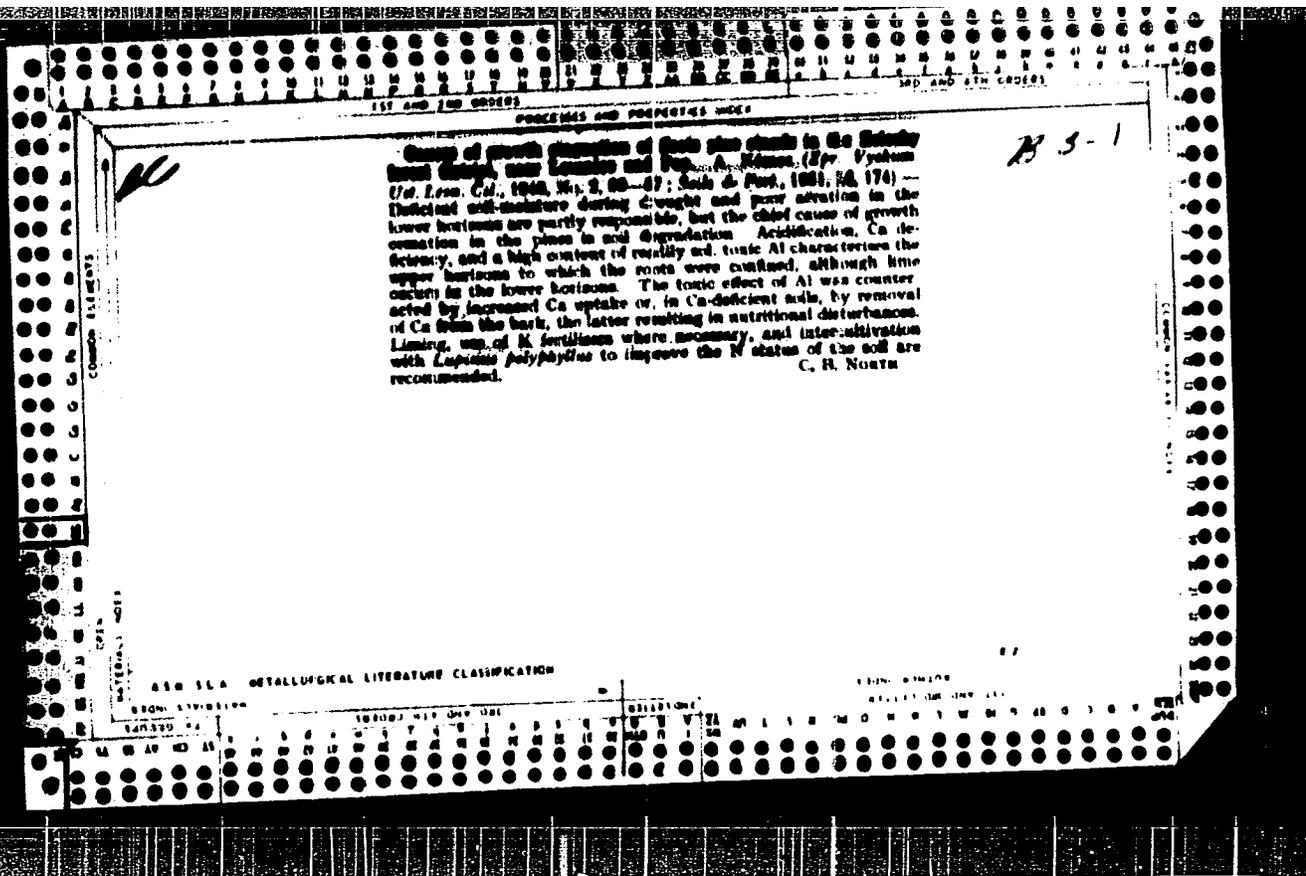
NEMEC, ANTONIN

Hnojení lesních kultur; lesní školky. (Praha, Prazada, 1948) 216 p. (Radce zemědelce, 68) (The manuring of forest cultures; forest nurseries. illus. bibl.)

CtY

Not in DIC

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958



NEMEC, Antonin

Chemical Abst.
Vol. 48 No. 6
Mar. 23, 1954
Soils and Fertilizers

(2)

Influence of beech on the quality of forest soils in the territory of square sandstone. Antonin Nemeč (Bílá vyhledávací ústředí Brno, Praha-Dolní, Čechy). Strojní Časopis. Abstr. Zemědělství 24, 49-57 (1951).—Mortality of pine in the 2nd generation intensively degrades sandy soils resulting from square sandstone of the chalk formation. In Zahrov (Northeast Bohemia) podzol horizons with a continuous hardpan layer have formed under a 70-year-old monoculture of pine. The plant cover causing the degradation consists of 78% *Vaccinium myrtillus*, 20% *V. vitis-idaea*, and 5% *Festuca*; the moss cover consists of 80% *Lecanobryum alatum*, 15% *Polypodium formosum*, and 5% *Gadoulia*. The duff soil cover is 4-8 cm. thick and consists of raw humus; below this is a 25 cm. thick "A" horizon of leached-out soil which is over a soft layer of brown-ferrous hardpan 5 cm. thick. The "B" horizon, below the hardpan, is 25 cm. thick and is composed of weathered square sandstone. The acidification of the soil profile by raw humus results in an exchange acidity which is harmful to the growth of young forest plants. The soil profile lacks lime, magnesium, and potash; they are leached from the "A" horizon and accumulate in the underlying "B" horizon. H_2PO_4 is translocated from the "A" horizon into the hardpan layer which is enriched with Al and Fe complex, and silicon in easily sol. forms. The soil beneath the beech tree is covered with a continuous layer of beech leaves on a surface of about 400 sq. m., and the growth of *Vaccinium* is practically prevented. The soil profile is similar to normal brown forest soil but with slight podsolization. The acidity of humus and mineral soil layers is lower, and the soil horizons are richer in easily sol. forms of lime, magnesium, potash, and phosphoric acid. The comparison of both soil profiles proves that the beech is able to protect the soil against extreme acidification and degradation.

Jan Mlýna

15

CA

Study of a serpentine forest soil with regard to its chromium content and to the resorption of chromium by a stunted-pine stand Antonín Němec (State Research Inst Forestry Production, Prague) *Shornik Československé Zemědělské 24, 395-404(1951) English summary*

The slightly acid soil is apparently degraded with the content of mineral nutrients reduced up to the depth of 70 cm. however, it is satd. with Mg and Al. Up to 11 times as much sol. Mg is present as sol. Ca which has been leached out and deposited in a lower strata of the soil. The upper profile of the soil is also very low in K, P, Fe, and Si. Al is highest in the upper strata and drops with the depth. The Cr content was studied in needles, bark, and wood of the pine. Strikingly high amts. of Cr were found in the top portions, e.g. the youngest, of the tree. This Cr content as a possible reason for stunted growth requires further proof as the toxicity limits of Cr and other micro-elements in the organisms of forest vegetation are not yet known.

L. A. Helwach

26

CA

Contents of oil and mineral substances in the seeds of yew and fir. Antonin Němec (State Research Inst. Paper Production, Prague). *Sborník Československé Zemědělské výroby, Praha* (English summary). The undried seeds of the yew *Taxus baccata* contain 68.5% oil, which is about double the amt in fir seeds. The K content of the yew seed is the highest among the conifers, P is considerably higher than in fir seeds but still lower than in the pine seeds, Mg content seems the same as in the fir seeds and Ca is relatively high, approaching the level in pine seeds. Its Si is the lowest among the conifers. The pericarp of yew seeds shows also the domination of K and P. L. A. Helwich

CA

Amelioration of a degraded forest soil by diabase powder in the forest district Choltice. Antonín Němec (Výzkum ústav pro lesní výrobu, Prague, Czech Y. Akad. věd Československa, Zprávy 23, 55 (1952)). The stunted growth in pine and forest cultures of the district Choltice, Czech is caused by an impoverishment of upper soil horizons in CaO, MgO, K₂O, and P₂O₅ which were carried down into the subsoil layers (50 to 70 cm.). The soil profile is azonal, consisting of sand and clay, turning in the depth of 70 cm. into a loamy silt. To ameliorate this soil diabase rock from the quarry Choltice, composed of 8.78% CaO, 2.91% MgO, 1.26-2.34% K₂O, 0.26-0.81% P₂O₅, and 43.00-45.75% SiO₂, was applied in a 1.2-cm. layer on the soil. After 2 years a very considerable increase in growth was observed in the red oak and small-leaved lime tree. In another less favorable expt. 2 kg. of powder rock was given individually to each plant in a compact layer on the bottom of the planting hole. However, if applied the same way, but mixed with humus the results were very favorable. An increase of the resorption of mineral nutrients by the leaves of oak and the needles of larch has been observed several years after the diabase powder had been applied.

Jan Míček

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NEMEC, A.

Improvement of cultivated forest stands on degraded soils by covering with brushwood and diabase fertilizers. p. 825. SBORNIK, RADA LESNICTVI. Praha. Vol. 28, no. 6, Dec. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, No. 7, July 1956.

NEMEC, ANTONIN

Meliorace degradovanych lesnich pud. (Vyd. 1.) Praha, Statni zemedelske
naki., 1956. 291 p. (Lesnicka knihovna. Mala rada, sv. 6.) (Reclamation
of degraded forest soils. 1st ed. illus., bibl.)

CU Not in DLC

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

NEMEC, A.

A study of damage caused by smoke in the forests situated in the vicinity of the Ceska Kamenice paper mills. p. 33. (SBORNIK RADA LESNICTVI. Praha) (Vol. 30, no. 1, Jan. 1957)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, No. 7, July 1957. Uncl.

NEMEC, A.

Effect of smoke and cinder on the intoxication of spruce growths. p. 397.

SBORNÍK. LESNICTVÍ. (Československá akademie zemědělských věd.) Praha, Czechoslovakia, Vol. 4, no. 5, May 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov, 1959
Uncl.

NEMEC, Adolf, inz.

Results of the 1st cycle of agrochemical soil testing in
Czechoslovakia. Rost vyroba 9 no.11:1193-1208 N '63.

1. Ustredni kontrolni a zkusebni ustav zemedelsky, Praha.

L 3324-66 EWP(t)/EWP(b) JD

ACC NR: AP5027872

CZ/0034/65/000/002/0092/0096

14
B

AUTHOR: Engel, Adolf (Engineer)

TITLE: Evaluation of the effects of open-hearth and blast-furnace slag on the yields of agricultural products

SOURCE: Hataicks listy, no. 2, 1965, 92-96

TOPIC TAGS: slag, metallurgic furnace, fertilizer

ABSTRACT: The effect of finely ground open-hearth slag and blast-furnace liny slag on the yield of agricultural products has been compared in field trials with the effect of ground limestone. For ground limestone, open-hearth slag and blast-furnace liny slag the average increases in yield were 0.61, 0.70 and 0.86 respectively and the increases in profit were 299%, 423% and 518% respectively. Orig. art. has 8 tables.

ASSOCIATION: Ustredni kontrolni a zkusebni ustav zemědělský, Prague (Central Agricultural Control and Testing Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES, MS

NO REF SOV: 000

OTHER: 000

JPRS

Card 1/1 DP

Z/032/61/011/006/004/004
E073/E335

AUTHOR: Němec, A.

TITLE: Lubrication Properties of Pure Molybdenum
Disulphide and Its Application

PERIODICAL: Strojírnoství, 1961, Vol. 11, No. 6,
pp. 462 - 465

TEXT: General information is given on the use of molybdenum disulphide-containing lubricants. In addition to giving general information on the specific properties, the author indicates the conditions under which molybdenum disulphide is more effective than the more conventional lubricant additives. It is stated that the article is based primarily on information published outside Czechoslovakia and therefore the data given are intended to serve only as guide values. He deals with the use of MoS₂ in the form of powders, pastes, varnishes, as additives to conventional lubricants and as additives to greases. MoS₂ is favourable particularly for boundary lubrication. In contrast to other additives, it has no chemical effect but protects the surface
Card 1/2

✓
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Lubrication Properties of

Z/032/61/011/006/004/004
E073/E335

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of components by forming a lubricant film. There are 13 non-Czech references. The English-language reference is: Ref. 3 - Bowden, F., Tabor, D. The Friction and Lubrication of Solids. Oxford University Press, London, 1954.

ASSOCIATION: Šmeralovy závody, Brno
(Šmeral Works, Brno)

Card 2/2

5/716/63/000/002/044/052
A052/A126

AUTHOR: Nikolaev, A.

TITLE: Technological lubricants in hot stamping

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no.2, 1963, 10, abstract 2V66 (Neprikladnaya fizika, v. 4, no. 3, 1962, 81-84, Czech; summaries in Russian, English, German and French)

TEXT: Various lubricants used in hot stamping were investigated and the results are given of investigations in which the stamping force with various lubricants, the adhesion between stamp and the processed material, the pressure in the stamp, and the tool wear were determined. The following problems are discussed: the physical side of the friction process in stamping and factors affecting the endurance of stamps; chemical composition, the structure and hardness of working surfaces of the stamp; the temperature of working surfaces, micro- and macrogeometry of the tool; the composition of lubricants, the temperature of stamped material and the quality of its surface; chemical composition and structure of stamped material, the pressure on contacting surfaces, the actual sliding speed. 6

Card 1/2

Technological lubricants...

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A052/A126

groups of lubricants are analyzed: 1) solid lubricants, - water and oil suspensions; 2) liquid lubricants - mineral and organic oil, oil emulsion, synthetic materials; 3) consistent lubricants - oil thickened by soaps; 4) sawdust; 5) salts (NaCl, Na₂CO₃, saltpeter, special salts, phosphates); 6) glass. Dependence diagrams for solid lubricants are given: the wear of stamps due to the pressure of steam liberated from lubricants; temperature friction coefficient for graphite lubricants and MoS₂ lubricants, and friction coefficient due to pressure and sliding speed. It is established that: 1) the wear of stamps is higher at a higher steam pressure; 2) the friction coefficient decreases with an increase in temperature and pressure in the case of graphite lubricants in the case of MoS₂ it remains constant and equal to 0.2 up to 800°C after which it increases sharply to 0.5, at a pressure of 70 kg/mm² it decreases to 0.025 and increases again to 0.4 as the pressure increases to 280 kg/mm²; 3) the sliding speed affects the friction coefficient negligibly. The latter diagram is plotted for the pressure of 88.5 kg/mm²; for graphite lubricants the friction coefficient at a speed of 4 m/sec is equal to 0.18 and at 40 m/sec to 0.23; for MoS₂ lubricants the respective values of friction coefficient are 0.13 and 0.07.

(Abstracter's note: Complete translation.)

V. Kovalenko

Card 2/2

NEMEC, Adolf

Effect of lubricants on the life of service of dies. Ropa a
uhlie 5 no.1:20-26 Ja '63.

1. Svernovy zavody, Vyskumny ustav teskeho strojirenstvi, Brno.

NEMEC, Ad.

Lubrication in wire drawing. Ropa. a uhle 6 no.2:57-58 F '62.

1. SZ - Vyzkumny ustav tezkoho strojirenatvi, Brno.

NEMEC, Ad.

Use of molybdenum disulfide in wire drawing. Ropa a unlie
7 no.3:91-93 Mr '65.

1. Research Institute of Heavy Engineering of the Svermovy
zavody, Brno.

38762-66 EWP(k)/T/EWP(v)/EWP(t)/ETI HM/JD

ACC NR: AP6029571

SOURCE CODE: CZ/0057/65/000/009/0396/0402

AUTHOR: Nemec, Antonin

ORG: MHD, Prague

373

TITLE: Renovation, the way to decrease the costs and save metal in maintenance operations

SOURCE: Hutnik, no. 9, 1965, 396-402

TOPIC TAGS: cost estimate, electroslag welding, automatic welding, arc welding, welding electrode

ABSTRACT: Renovation is the technique of restoration of a part or an entire piece of machinery to its original shape. Advantages of using automatic welding processes as compared to manual welding in this operation are discussed. The techniques used in renovation welding are evaluated: automatic welding under a layer of flux; electroslag welding; automatic and semiautomatic welding in an inert atmosphere; automatic welding by an electric arc protected by a melted electrode; manual welding. Cost of metal used in these operations, and the total cost of the individual processes are discussed. Workers at VUZ, Bratislava, also participated in this work. Orig. art. has: 7 figures and 4 tables. [JPRS]

SUB CODE: 13, 05 / SUBM DATE: none

Card 1/1

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Námez (B.). **Tumores an den Wurzeln der Pflanzen.** [Tumours on the roots of Plums.]—Reprinted from *Věstník Král. Čen. Spol. Nauk*, ii, 13 pp., 16 figs., 1929. [English summary. Received August, 1930.]

Full details are given of the author's histological and cytological examination of the pea- to walnut-sized tumours found on the roots of plum trees in various districts of Czecho-Slovakia.

In view of the necessity of differentiating between bacteria and mitochondria, the material was fixed with two preparations, viz. (1) 100 c.c. chromic acid and 8 c.c. neutral formalin, and (2) 50 c.c. potassium bichromate, 50 c.c. chromic acid, and 8 c.c. neutral formalin. The former proved very satisfactory for the fixation of bacteria but less so for that of the mitochondria, while the latter was equally good for both. Heidenhain's haematoxylin stained both bacteria and mitochondria, while the Gram process was also useful for the former. In plum trees there is little risk of confusing bacteria and mitochondria, but in the tumours of other plants it may be necessary to use Milovidov's differential stain (*Arch. d'Anat. Micr.*, xxiv, 1928).

The cytoplasm of cells in the tumours was found to contain various types of bodies, viz., weakly staining, minute fibres, often swollen at one end (mitochondria); globular or ellipsoid structures

ORIGINAL NOTE

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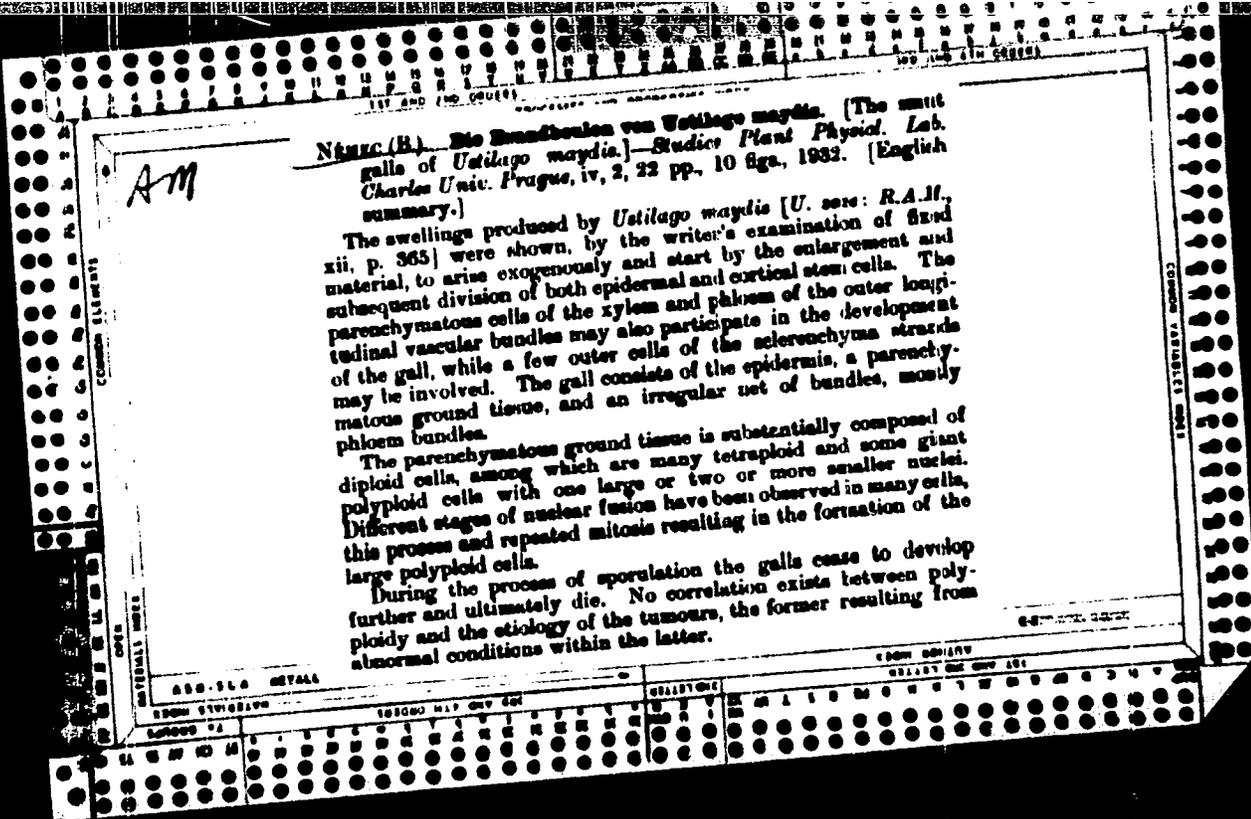
(leucoplasts, non-stained rods, threads, or grains, slightly thicker than the mitochondria and mostly collected in groups or sometimes forming long strands. The last-named bodies are evidently bacteria, as indicated by their fairly uniform shape and occurrence in aggregations instead of being diffused through the cytoplasm, as in the case of chloronemes. In sections stained by Milovidov's differential method, the mitochondria are red and the bacteria blue. The bacteria were detected mostly in the peripheral cells of the tumours, though a certain number also occurred elsewhere, i.e. in the older parenchyma cells, the long procumbent cells of the vascular bundles, the parenchymatous sheath of the latter, the sieve-tube and their companion cells, and the meristematic cells of the inter-fascicular cambium, when present. No bacteria were observed in the intercellular spaces.

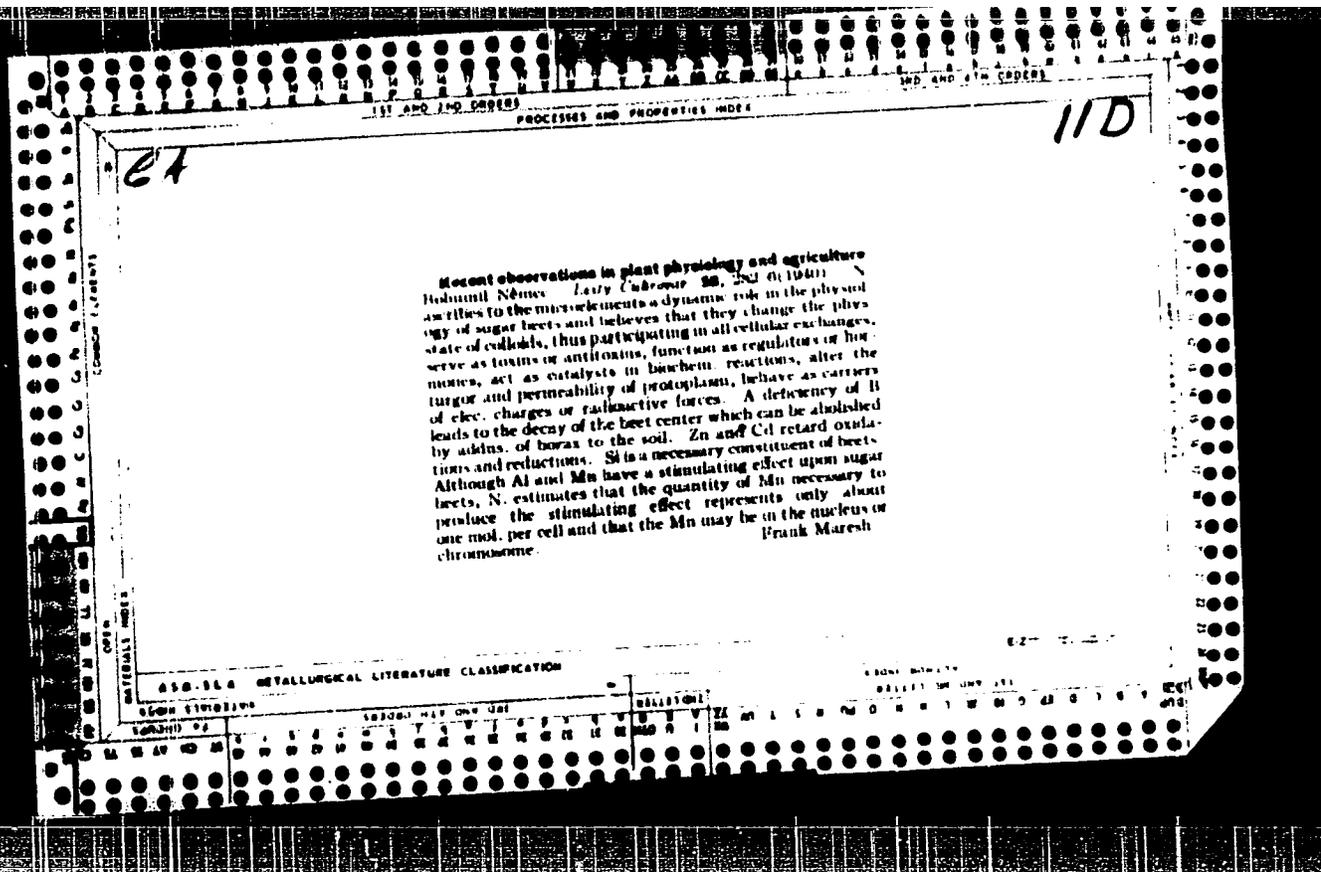
It was not possible to determine the manner in which the bacteria spread from cell to cell, whether by actual migration through the cell walls or by passive dispersal through the division of the cells in which they are contained.

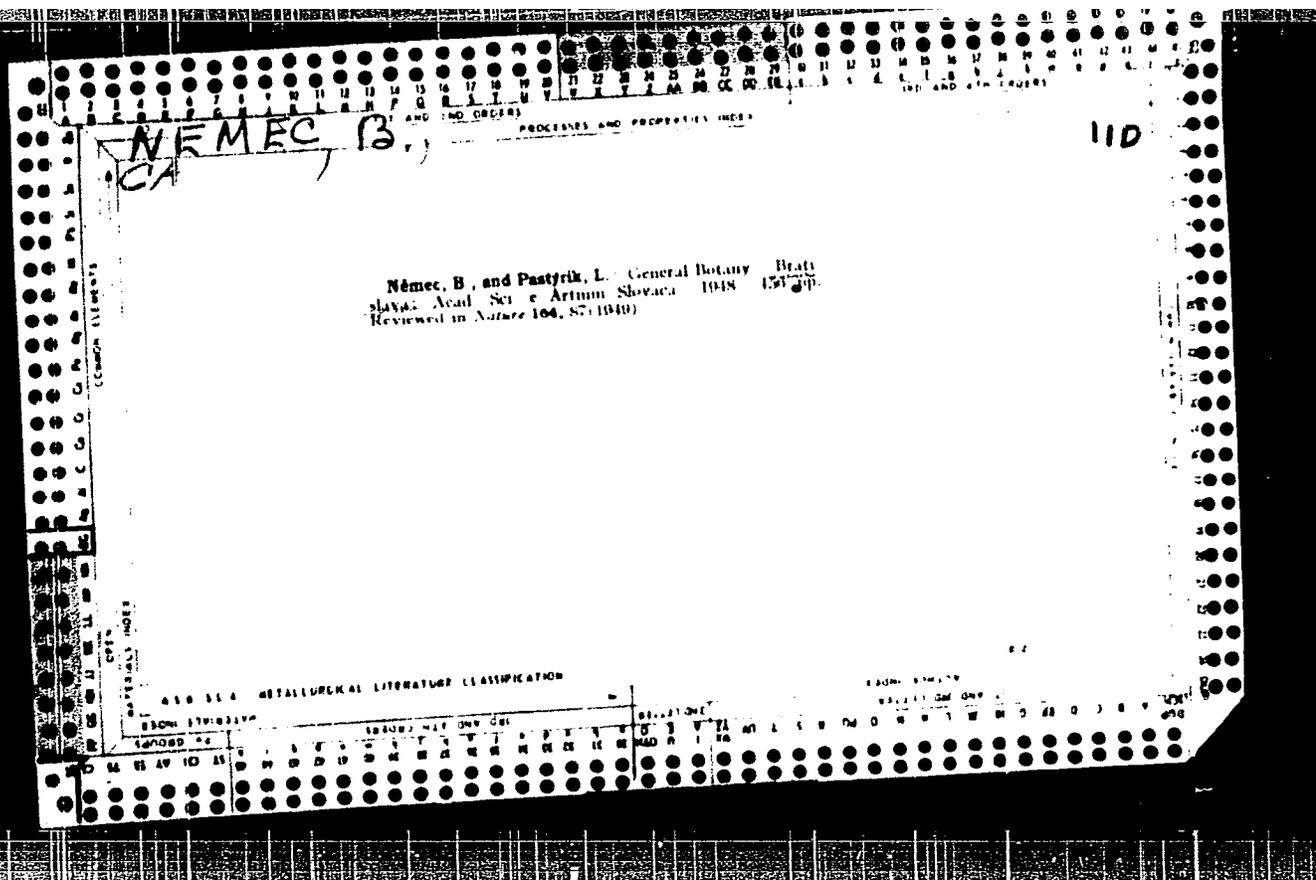
[The nature of the tumours is not specified, but they appear to

002

have been taken as probably crown gall, caused by *Bacterium tumefaciens*.]







NEMEC, B.

Ivan Malek's Boj noveho se starvm v dnesni nasi vede (Struggle of the New and the Old
in Our Contemporary Science). a book review. p. 637

Vol. 4, no. 10, Nov. 1955
CESKOSLOVENSKA BIOLOGIE
Praha, Czechslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

Nešec Bohumil
CZECHOSLOVAKIA/General Division. General Questions. Philosophy. Metho- A-1
dology.

Abs Jour: Ref. Zhur. Biologiya, No 4, 1958, 14096.

Author : Nešec Bohumil

Inst :

Title : ~~Ten Years of~~ Czechoslovak Botany

Orig Pub: Preslia, 1955, 27, No 2, 113-123.

Abstract: The basic routes of the development of biology since 1939 are set forth, through the occupation, liberation, the organization of the Czechoslovak Academy of Sciences, the formation of scientific institutes and journals.

Card : 1/1

-10-

NEMEC, J.

Evaluating the conference of specialists on photosynthesis held on March 12-14,
1956 in the House of Scientific Workers in Liblice. p. 331
(CESKOSLOVENSKA BIOLOGIE, Vol. 5, No. 6, Nov 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EML) LC, Vol. 6, No. 12, Dec 1957. encl.

COUNTRY : Czechoslovakia
CATEGORY : Cultivated Plants. Fruits. Berries. Nuts. Tea. M
ABS. JOUR. : RZhBiol., No. 4, 1957, No. 15780
AUTHOR : Nemeo, Bohumil
INST. :
TITLE : Physiology of Graftings.

ORIG. PUB. : Ziva, 1957, 5, No. 2, 41-43

ABSTRACT : The history is set forth of the development of means of grafting in fruit growing. Noted is the influence of the rootstock on the fruit bearing, character of fruits, direction and rhythm of the growth of the scion. The possibility of developing vegetative hybrids is subject to doubt. Many new forms described as grafting hybrids can, in the author's opinion, be regarded as modifications and mutations accompanied by the growing together of graft components. At the same time the rise of chimera is also possible. It is, in passing,

Card: 1/2

138

NEMEC, BOHUMIL

CZECHOSLOVAKIA / General Division, History, Classics, Personnel A-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 42

Author : Nemeč, Bohumil

Inst : Not Given

Title : Carl Linnaeus (On the 250th Anniversary of His Birth)

Orig Pub : Prirod. vedy skole, 1957, 7, No 5, 385-390

Abstract : No abstract

Card : 1/1

NEED, B

"Linne's Philosophia botanica; a book review."

BIOLOGIA, Bratislava, Czechoslovakia, Vol. 13, no. 6, 1958

Monthly List of East Europe Acquisitions (EEAI), LC, Vol. 3, No. 6, Sept 59
Unclass

NEMEC, Bohumil, prof., dr.

On mixoploid root caps. *Biologia plantarum* 3 no.4:253-264
'61.

1. Mitglied der Tschechoslowakischen Akademie der Wissenschaften
(Praha - Smichov, Na Vaclavce 1138).

NEMEC, Eohmil (Na Vaclavce 7, Praha-Smichov)

Doubling ability of polyploid cells and the restitution of
mixoploid root tips. *Biologia plantarum* 4 no.3:161-169 '62.

*

NEMEC, Bohumil (Prahá - Smichov, Na Vaclavce 7)

Germination and development of mixoploid lateral roots. *Biologia
plantarum* 4 no.4:261-268 '62.

HEMEC, Bohumil, inz.; VRBA, Petr, inz.

Problems of global and special coordination of the transportation services. Doprava no.12:401-403 '62.

NEMEC, Bohumil, prof.

Professor K. Hruby; obituary. Biologia plantarum 5 no.2:87-88 '63.

FARZYK, Jan, doc. inz. dr.; NEMEC, Bonumil, inz. CSc.

Methods of depreciating automobile rolling stock. Poprava
no. 5:369-376 '64.

NEMEC, Bohumil (Praha - Smichov, Na Vaclavce 7)

Healing processes of crushed root caps. *Biologia
plantarum* 6 no. 2:73-78 '64.

1. Czechoslovak Academy of Sciences, Prague, Chief Editor of
"Biologia Plantarum."